

RAW SEQUENCE LISTING

**The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.**

Application Serial Number: 09/808813 B
Source: IFW/6
Date Processed by STIC: 5/20/5

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IFW16

RAW SEQUENCE LISTING

DATE: 05/20/2005

PATENT APPLICATION: US/09/868,813B

TIME: 09:10:12

Input Set : A:\14730.txt

Output Set: N:\CRF4\05202005\I868813B.raw

```

3 <110> APPLICANT: Willson, Tracy A.
4     Simpson, Richard J.
5     Farley, Alison M.
6     Nicholson, Sandra E.
7     Zhang, Jian-Guo
8     Baca, Manuel
9     Nicola, Nicas A.
10    Hilton, Douglas J.
11    Alexander, Warren S.
12    Metcalf, Donald
14 <120> TITLE OF INVENTION: SOCS-BOX CONTAINING PEPTIDES
16 <130> FILE REFERENCE: Davies Collison Cave
18 <140> CURRENT APPLICATION NUMBER: 09/868,813B
19 <141> CURRENT FILING DATE: 2002-02-26
21 <160> NUMBER OF SEQ ID NOS: 6
23 <170> SOFTWARE: PatentIn Ver. 2.1
25 <210> SEQ ID NO: 1
26 <211> LENGTH: 8
27 <212> TYPE: PRT
28 <213> ORGANISM: Artificial Sequence
30 <220> FEATURE:
31 <223> OTHER INFORMATION: Description of Artificial Sequence: FLAG epitope tag
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34 Asp Tyr Lys Asp Asp Asp Lys
35 1 5
38 <210> SEQ ID NO: 2
39 <211> LENGTH: 10
40 <212> TYPE: PRT
41 <213> ORGANISM: Artificial Sequence
43 <220> FEATURE:
44 <223> OTHER INFORMATION: Description of Artificial Sequence: myc epitope tag
46 <400> SEQUENCE: 2
47 Asp Gln Lys Leu Ile Ser Glu Glu Asp Leu
48 1 5 10
51 <210> SEQ ID NO: 3
52 <211> LENGTH: 14
53 <212> TYPE: PRT
54 <213> ORGANISM: Artificial Sequence
56 <220> FEATURE:
57 <223> OTHER INFORMATION: Description of Artificial Sequence: linker sequence
59 <400> SEQUENCE: 3
60 Glu Gly Lys Ser Ser Gly Ser Gly Ser Glu Ser Lys Val Asp
61 1 5 10

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64 <210> SEQ ID NO: 4
 65 <211> LENGTH: 10
 66 <212> TYPE: PRT
 67 <213> ORGANISM: Artificial Sequence
 69 <220> FEATURE:
 70 <223> OTHER INFORMATION: Description of Artificial Sequence: consensus sequence in the
 71 N-terminus of SOCS boxes
 73 <220> FEATURE:
 74 <221> NAME/KEY: misc_feature
 75 <222> LOCATION: (1)
 76 <223> OTHER INFORMATION: Xaa is Thr, Ser or Pro
 78 <220> FEATURE:
 79 <221> NAME/KEY: misc_feature
 80 <222> LOCATION: (3)..(5)
 81 <223> OTHER INFORMATION: Xaa is any amino acid
 83 <220> FEATURE:
 84 <221> NAME/KEY: misc_feature
 85 <222> LOCATION: (6)
 86 <223> OTHER INFORMATION: Xaa is Cys or Ser
 88 <220> FEATURE:
 89 <221> NAME/KEY: misc_feature
 90 <222> LOCATION: (7)..(9)
 91 <223> OTHER INFORMATION: Xaa is any amino acid
 93 <220> FEATURE:
 94 <221> NAME/KEY: misc_feature
 95 <222> LOCATION: (10)
 96 <223> OTHER INFORMATION: Xaa is Leu, Ile or Val
 98 <400> SEQUENCE: 4

W--> 99 Xaa Leu Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

100 5 10

102 <210> SEQ ID NO: 5
 103 <211> LENGTH: 128
 104 <212> TYPE: PRT
 105 <213> ORGANISM: Mus musculus
 107 <220> FEATURE:
 108 <221> NAME/KEY: UNSURE
 109 <222> LOCATION: (1)
 110 <223> OTHER INFORMATION: Xaa is Leu, Ile, Val, Met, Ala or Pro
 112 <220> FEATURE:
 113 <221> NAME/KEY: UNSURE
 114 <222> LOCATION: (2)
 115 <223> OTHER INFORMATION: Xaa is any amino acid residue
 117 <220> FEATURE:
 118 <221> NAME/KEY: UNSURE
 119 <222> LOCATION: (3)
 120 <223> OTHER INFORMATION: Xaa is Pro, Thr or Ser
 122 <220> FEATURE:
 123 <221> NAME/KEY: UNSURE
 124 <222> LOCATION: (4)

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125 <223> OTHER INFORMATION: Xaa is Leu, Ile, Val, Met, Ala or Pro
127 <220> FEATURE:
128 <221> NAME/KEY: UNSURE
129 <222> LOCATION: (5)
130 <223> OTHER INFORMATION: Xaa is any amino acid
132 <220> FEATURE:
133 <221> NAME/KEY: UNSURE
134 <222> LOCATION: (6)
135 <223> OTHER INFORMATION: Xaa is any amino acid
137 <220> FEATURE:
138 <221> NAME/KEY: UNSURE
139 <222> LOCATION: (7)
140 <223> OTHER INFORMATION: Xaa is Leu, Ile, Val, Met, Ala, Phe, Tyr or Trp
142 <220> FEATURE:
143 <221> NAME/KEY: UNSURE
144 <222> LOCATION: (8)
145 <223> OTHER INFORMATION: Xaa is Cys, Thr or Ser
147 <220> FEATURE:
148 <221> NAME/KEY: UNSURE
149 <222> LOCATION: (9)
150 <223> OTHER INFORMATION: Xaa is Arg, Lys or His
152 <220> FEATURE:
153 <221> NAME/KEY: UNSURE
154 <222> LOCATION: (10)
155 <223> OTHER INFORMATION: Xaa is any amino acid
157 <220> FEATURE:
158 <221> NAME/KEY: UNSURE
159 <222> LOCATION: (11)
160 <223> OTHER INFORMATION: Xaa is any amino acid
162 <220> FEATURE:
163 <221> NAME/KEY: UNSURE
164 <222> LOCATION: (12)
165 <223> OTHER INFORMATION: Xaa is Leu, Ile, Val, Met, Ala or Pro
167 <220> FEATURE:
168 <221> NAME/KEY: UNSURE
169 <222> LOCATION: (13)
170 <223> OTHER INFORMATION: Xaa is any amino acid
172 <220> FEATURE:
173 <221> NAME/KEY: UNSURE
174 <222> LOCATION: (14)
175 <223> OTHER INFORMATION: Xaa is any amino acid
177 <220> FEATURE:
178 <221> NAME/KEY: UNSURE
179 <222> LOCATION: (15)
180 <223> OTHER INFORMATION: Xaa is any amino acid
182 <220> FEATURE:
183 <221> NAME/KEY: UNSURE
184 <222> LOCATION: (16)
185 <223> OTHER INFORMATION: Xaa is Leu, Ile, Val, Met, Ala, Pro, Gly, Cys, Thr

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186 or Ser
188 <220> FEATURE:
189 <221> NAME/KEY: UNSURE
190 <222> LOCATION: (17)..(66)
191 <223> OTHER INFORMATION: Xaa can be any amino acid. Position 17-66
192 can be 1-50 amino acids.
194 <220> FEATURE:
195 <221> NAME/KEY: UNSURE
196 <222> LOCATION: (67)
197 <223> OTHER INFORMATION: Xaa is Leu, Ile, Val, Met, Ala or Pro
199 <220> FEATURE:
200 <221> NAME/KEY: UNSURE
201 <222> LOCATION: (68)
202 <223> OTHER INFORMATION: Xaa is any amino acid
204 <220> FEATURE:
205 <221> NAME/KEY: UNSURE
206 <222> LOCATION: (69)
207 <223> OTHER INFORMATION: Xaa is any amino acid
209 <220> FEATURE:
210 <221> NAME/KEY: UNSURE
211 <222> LOCATION: (70)
212 <223> OTHER INFORMATION: Xaa is Leu, Ile, Val, Met, Ala or Pro
214 <220> FEATURE:
215 <221> NAME/KEY: UNSURE
216 <222> LOCATION: (72)
217 <223> OTHER INFORMATION: Xaa is Leu, Ile, Val, Met, Ala, Pro or Gly
219 <220> FEATURE:
220 <221> NAME/KEY: UNSURE
221 <222> LOCATION: (73)
222 <223> OTHER INFORMATION: Xaa is Pro or Asn
224 <220> FEATURE:
225 <221> NAME/KEY: UNSURE
226 <222> LOCATION: (74)..(123)
227 <223> OTHER INFORMATION: Xaa can be any amino acid. Position 74-123
228 can be 1-50 amino acids.
230 <220> FEATURE:
231 <221> NAME/KEY: UNSURE
232 <222> LOCATION: (124)
233 <223> OTHER INFORMATION: Xaa is Leu, Ile, Val, Met, Ala or Pro
235 <220> FEATURE:
236 <221> NAME/KEY: UNSURE
237 <222> LOCATION: (125)..(126)
238 <223> OTHER INFORMATION: Xaa is any amino acid
240 <220> FEATURE:
241 <221> NAME/KEY: UNSURE
242 <222> LOCATION: (127)
243 <223> OTHER INFORMATION: Xaa is Tyr or Phe
245 <220> FEATURE:
246 <221> NAME/KEY: UNSURE

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Input Set : A:\14730.txt

Output Set: N:\CRF4\05202005\I868813B.raw

247 <222> LOCATION: (128)

248 <223> OTHER INFORMATION: Xaa is Leu, Ile, Val, Met, Ala or Pro

251 <400> SEQUENCE: 5

W--> 253 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 254 1 5 10 15
 256 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 257 20 25 30
 259 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 260 35 40 45
 262 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 263 50 55 60
 265 Xaa Xaa Xaa Xaa Xaa Xaa Pro Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 266 65 70 75 80
 268 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 269 85 90 95
 271 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 272 100 105 110
 274 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 275 115 120 125

277 <210> SEQ ID NO: 6

278 <211> LENGTH: 4

279 <212> TYPE: PRT

280 <213> ORGANISM: Artificial Sequence

282 <220> FEATURE:

283 <223> OTHER INFORMATION: Description of Artificial Sequence: a protein-protein
 284 interaction domain in SOCS proteins

286 <400> SEQUENCE: 6

287 Ser Pro Arg Tyr

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/09/868,813B

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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:4; Xaa Pos. ~~1, 3, 4, 5, 6, 7, 8, 9, 10~~
Seq#:5; Xaa Pos. ~~1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22~~
Seq#:5; Xaa Pos. ~~23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41~~
Seq#:5; Xaa Pos. ~~42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60~~
Seq#:5; Xaa Pos. ~~61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 72, 73, 74, 75, 76, 77, 78, 79, 80~~
Seq#:5; Xaa Pos. ~~81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99~~
Seq#:5; Xaa Pos. ~~100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113~~
Seq#:5; Xaa Pos. ~~114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127~~
Seq#:5; Xaa Pos. ~~128~~

VERIFICATION SUMMARY

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L:99 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0

L:253 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:0

M:341 Repeated in SeqNo=5